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	Application Number		10589449	
	Filing Date		2007-04-27	
INFORMATION DISCLOSURE	First Named Inventor Tho		homas Tuschl et al.	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		1635	
(Not lot submission under or of it 1.33)	Examiner Name	N/A		
	Attorney Docket Numb	er	1119-10 CON/PCT/US	

				U.S.	PATENTS	
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	7217807	B2	2007-05-15	Bentwich	
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	1	20060257851		2006-11-16	Bentwich	
	2	20070042381		2007-02-22	Bentwich et al.	
	3	20070039072	A1	2007-02-15	Khvorova et al.	
	4	20030108923	A1	2003-06-12	Tuschl et al.	
	5	20070039072		2007-02-01	Khvorova et al.	

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	6	20060166910	A1	2006-07	-27	Tuschl et al.				
	7	20080188428	A1	2008-08	3-07	Bentwich				
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	1	WO2004048511	wo		A2	2004-06-10	Bentwich			
	2	WO2004007718	wo		A2	2004-01-22	Tuschl et al.			
	3	WO03029459	wo		A2	2003-04-10	Tuschl et al.			
	4	WO2004044123	wo		A2	2004-05-27	Bentwich			
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	1	Avavin et al., "The Small RNA Profile During Drosophila Melanogaster Development", Developmental Cell, Vol. 5, p. 337-350 (2003).	
	2	Beigelman et al., "Chemical Modification of Hammerhead Ribozymes", The Journal of Biological Chemistry, Vol. 270, No. 43, P. 25702-25708 (1995).	
	3	Liang et al., "Inhibitor RNA Blocks the Protein Translation Mediated by Hepatitis C Virus Internal Ribosome Entry Site in Vivo", World J. Gastroenterol, 10(5), p. 664-667 (2004).	
	4	Amarzguioui, Mohammed, et al., "Tolerance for mutations and chemical modifications in a siRNA", Nucleic Acids Research 2003, 31(2):589-595.	
	5	Bartel, David P., "MicroRNAs: Genomics, Biogenesis, Mechanism, and Function", Cell 2004, 116:281-297.	
	6	Elbashir, Sayda M., et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells", Nature 2001, 411:494-498.	
	7	Holen, Torgeir, et al., "Positional effects of short interfering RNAs targeting the human coagulation trigger Tissue Factor", Nucleic Acids Research 2002, 30(8):1757-1766.	
	8	Holen, Torgeir, et al., "Similar behaviour of single-strand and double-strand siRNAs suggests they act through a common RNAi pathway", Nucleic Acids Research 2003, 31(9):2401-2407.	
	9	Howard, Ken, "Unlocking the money-making potential of RNAi", Nature Biotechnology 2003, 21(12):1441-1446.	
	10	Kurreck, Jens, "Antisense technologies Improvement through novel chemical modifications", Eur. J. Biochem. 2003, 270:1628-1644.	

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11	Meister, Gunter, et al., "Sequence-specific inhibition of microRNA- and siRNA-induced RNA silencing", RNA 2004, 10:544-550.	
12	Nelson, Peter, et al., "The microRNA world: small is mighty", TRENDS in Biochemical Sciences 2003, 28(10):534-540.	
13	Database EMBL (Online), 'Homo Sapiens Genomic Sequence Surrounding NotI site, clone NR3-B07C", XP002451881 retrieved from EBI accession no. EMBL: AJ332626: 21/22 residues match SEQ ID NO: 1; October 2001, abstract.	
14	Database EMBL (Online), 'NISC_js08a05.w1 Soares NMBP1 Mus Musculus cDNA clone Image: 4314537 5', mRNA sequence", XP002451882 retrieved from EBI accession no. EMBL: CB057718; 22/22 residues match SEQ ID NO: 3; January 2003, abstract.	
15	Database EMBL (Online), CH4#001_G02T7 Canine Heart Normalized CDNA Library in pBluescript Canis familaris CDNA clone CH4#001_G02 5`, mRNA sequence." XP002451883 retrieved from EBI accession no. EMBL: BU751380: 22/22 residues match SEQ ID NO: 4; October 2002, abstract.	
16	Berezikov et al., "Phylogenetic Shadowing and Computational Identification of Human MicroRNA Genes", Cell, Vol. 120, pp. 21-24 (2005).	
17	Seitz, et al., "A Large Imprinted MicroRNA Gene Cluster at the Mouse Elkl-Gtl2 Domain", Genome Research, pp2. 1-8 (2004).	
18	Xie et al., "Systematic Discovery of Regulatory Motifs in Human Promoters and 3` UTR's by Comparison of Several Mammals", Nature, pp. 1-8 (2005).	
19	Analysis and accompanying remarks by Rosetta Genomics of the sequences presented in Table A2 of the specification of the instant application (June 28, 2007).	
20	Table of information provided by Rosetta regarding the applications submitted in IDS dated July 12, 2007 (June 28, 2007).	
21	Analysis by Rosetta of the sequences of Table A2 compared to those disclosed in Rosetta's patent applications (June 28, 2007).	

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22	AC146999, Murphy et al. October 31, 2003, P. 1-67.	
23	Murphy et al., "Coding Potential of Laboratory and Clinical Strains of Human Cytomegalovirus", PNAS, Vol. 100, No. 25, p. 14976-14981 (2003).	
24	Taliansky et al., "An Umbraviral Protein, Involved in Long-Distance RNA Movement, Binds Viral RNA and Forms Unique, Protective Ribonucleoprotin Complexes", Journal of Virology, Vol. 77, No. 5, p. 3031-3040 (2003).	
25	Paddison et al., "Short Hairpin RNAs (shRNAs) Induce Sequence-Specific Silencing in Mammalian Cells", Genes & Development, 16:948-958 (2002).	
26	Wiebusch et al., "Inhibition of Human Cytomegalovirus Replication by Small Interfering RNAs", Journal of General Virology, 85, p. 179-184 (2004).	
27	Vanitharani et al., "Short Interfering RNA-Mediated Interference of Gene Expression and Viral DNA Accumulation in Cultured Plant Cells", PNAS, Vol. 100, No. 16, p.9632-9636 (2003).	
28	Pfitzner et al., "Isolation and Characterization of cDNA Clones Corresponding to Transcripts from the BamHI H and F Regions of the Epstein-Barr Virus Genome", Journal of Virology, Vol. 61, No. 9, p. 2902-2909 (1987).	
29	Pfeffer et al., "Indentification of Virus-Encoded microRNAs", Science, Vol. 304, p. 734-736 (2004).	
30	Pfeffer et al., "Identification of microRNAs of the Herpesvirus Family", Nature Methods, Published Online DOI:10.1038/NMETH746, p. 1-8	
31	Zeng, et al., "MicroRNAs and Small Interfering RNAs Can Inhibit mRNA Expression by Similar Mechanisms", PNAS, Vol. 100, No. 17, p. 9779-9784 (2003).	
32		

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